

CLAIMS

1. A system for entry and display of blueprint data comprising a handheld device, said handheld device further

5 comprising:

a graphical user interface for providing line segment data entry fields and for displaying input line segments;

a processor and memory adapted for accepting, storing, and editing line segment data associated with said input line

10 segments.

2. The system of Claim 1, wherein said input line segments are stored as a hierarchical sequence, and wherein editing, insertion, or deletion of a selected line segment
15 translates line segments that succeed the selected line segment of said hierarchical sequence without translating line segments that precede the selected line segment in said hierarchical sequence.

20 3. The system of Claim 1, wherein said line segment data entry fields comprise a start point field, a direction field, and a length field.

4. The system of Claim 1, wherein said display is a touchscreen.

5. The system of Claim 1, wherein said a graphical user interface further provides arc data fields.

6. The system of Claim 5, wherein said arc data fields comprise a start point field, an end point field, and a radius field.

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7. The system of Claim 1, further comprising a keypad.

8. A method for entering blueprint data into a handheld device comprising:

15 entering a start point for a first line segment;
 entering a length for said first line segment;
 entering a direction for said first line segment; and
 entering and displaying said line segment on a display
 associated with said handheld device.

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9. The method of Claim 8, further comprising entering a repeat factor for said line segment.

10. The method of Claim 8, further comprising:
entering a start point for an arc;
entering an end point for said arc;
entering a radius for said arc; and
5 displaying said arc on said display.

11. The method of Claim 8, further comprising:
entering a start point for a second line segment,
10 wherein said start point of said second line segment is an
end point of said first line segment; and
entering and displaying said second line segment on said
display.

15 12. The method of Claim 11, further comprising:
entering a start point for a third line segment, wherein
said start point of said third line segment is an end point
of said first line segment; and
translating said second line segment so that the start
20 point of said second line segment coincides with an end point
of said third line segment.

13. The method of Claim 11, further comprising:
entering a start point for a third line segment, wherein
5 said start point of said third line segment is an end point
of said second line segment; and
entering and displaying said third line segment on said
display.

10 14. The method of Claim 13, further comprising:
storing said first, second, and third line segments as a
hierarchical sequence, and wherein editing or deletion of
said second line segment automatically translates said third
line segment without translating said first line segment.

15 15. A computer-readable medium comprising computer-
executable instructions stored therein for performing a
method of entering blueprint data into a handheld device,
said method comprising:

20 entering a start point for a first line segment;
entering a length for said first line segment;

entering a direction for said first line segment; and
entering and displaying said line segment on a display
associated with said handheld device.

5 16. The computer readable medium of Claim 15, wherein
said method further comprises:

entering a start point for an arc;
entering an end point for said arc;
entering a radius for said arc; and
10 displaying said arc on said display.

17. The computer readable medium of Claim 15, wherein
said method further comprises:

entering a start point for a second line segment,
15 wherein said start point of said second line segment is an
end point of said first line segment; and
entering and displaying said second line segment on said
display.

20 18. The computer readable medium of Claim 17, wherein
said method further comprises:

entering a start point for a third line segment, wherein
said start point of said third line segment is an end point
of said first line segment; and

translating said second line segment so that the start
5 point of said second line segment coincides with an end point
of said third line segment.

19. The computer readable medium of Claim 17, wherein
said method further comprises:

10 entering a start point for a third line segment, wherein
said start point of said third line segment is an end point
of said second line segment; and

entering and displaying said third line segment on said
display.

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20. The computer readable medium of Claim 19, wherein
said method further comprises:

storing said first, second, and third line segments as a
hierarchical sequence, and

20 wherein editing or deletion of said second line segment
automatically translates said third line segment without
translating said first line segment.